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In Re Application	Wolfe and Fraser	r				
Application No. 08/393,066	Filing Date February 23, 1995	Examiner Deborah Crouch	Customer No. 26259	Group Art Unit 1632	Confirmation No.	
Title: METHOD	OF DELIVERY GEN	IES TO THE CENTRAL NER	RVOUS SYSTEM	I OF A MAMMA	L .	
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Applicant(s): Wolfe and Fraser			PEN	PENN-0065			
Application No.	Filing Date	Examiner	Customer No.	Group Art Unit			
08/393,066	February 23, 1995	Deborahr Garach	26259	1632			
Invention: METHOD	Invention: METHOD OF DELIVERING GENES TO THE CENTRAL NERVOUS SYSTEM OF A MAMMAL						
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket No.:

PENN-0065

Inventors:

Wolfe and Fraser

Serial No.:

08/393,066

Filing Date:

February 23, 1995

Examiner:

Deborah Crouch

Customer No.:

26259

Group Art Unit:

1632

Confirmation No.:

1030

Title:

Method of Delivering Genes to the Central Nervous System of a Mammal

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By Jane Massey Licata Registration No. 32,257

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REPLY BRIEF

This reply brief is being filed in response to the Examiner's Answer dated April 6, 2005 to address certain issues raised in the Examiner's Answer.

The claimed invention is a method for delivering a gene of selected DNA sequence to the central nervous system (CNS) of a mammal by administering to peripheral neuron cells of a mammal a neurotropic virus, where the virus contains a selected DNA sequence under the control of a LAT promoter which permits stable expression of the gene for at least four months by infected central nervous system cells. As such, Appellants are not claiming a gene therapy method. However, the basis for the Examiner's rejection is that the mere showing of delivery of a gene to a particular tissue would not have been viewed as enabling gene therapy because the art teaches that gene therapy is unpredictable due to inefficient delivery, cytotoxicity, and lack of sustained expression. As described in detail in the Appeal Brief, Appellants have provided the necessary guidance for making and delivering the neurotropic virus construct of the instant invention to provide stable gene expression in the central nervous system of a mammal and improve upon the teachings of the art. Further, Appellants have disclosed credible use of the claimed invention and provided evidence to show that the invention will work as claimed. Thus, Appellants are in compliance with the enabling requirement of the first paragraph of Section 112 and believe that it is improper to

require evidence of safety in the treatment of humans and degree of effectiveness (MPEP 2107.02).

Further, it would have been well-known within the art at the time of filing that a method of stably expressing a selected DNA sequence in the central nervous system of a mammal would be useful in the generation of an animal model. In this regard, Appellants submitted the teachings of Xing et al. ((1994) J. Immunol. 153:4059-4069) as evidence of the level of knowledge of one of ordinary skill in the art at the time of filing. Xing et al. disclose tissue-specific delivery and expression of IL-6 in rat lung for investigating cytokine functions in vivo. Accordingly, Appellants believe that a person of ordinary skill would immediately recognize the utility of delivering a selected DNA sequence to the tissue of the central nervous system of a mammal and stably expressing the selected DNA sequence in the central nervous system of the mammal in order to establish an animal model for studying disease pathology and facilitating drug discovery.

Thus, Appellants believe that in accord with the requirement set forth in MPEP 2164.01, one reasonably skilled in the art could make or use the invention from the disclosures provided in

the patent application coupled with information known in the art at the time of filing without undue experimentation.

Reconsideration is, therefore, respectfully requested.

Respectfully submitted,

Jane Massey Licata Registration No. 32,257

DATE: June 1, 2005

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